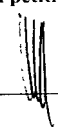




JC20 Rec'd PCT/PTO 19 FEB 2002

FORM PTO 1390 (REV 11 98)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER 23427N1PCT/US
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371			U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/069494
INTERNATIONAL APPLICATION NO. PCT/EP00/08290	INTERNATIONAL FILING DATE August 25, 2000	PRIORITY DATE CLAIMED (earliest) August 27, 1999	
TITLE OF INVENTION FLAMMABLE MASS			
APPLICANT(S) FOR DO/EO/US Bernd LAUDI, et al			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<p>1 <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2 <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3 <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1)(PCT/IPEA/401).</p> <p>4 <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date /</p> <p>5 <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p>a. <input type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</p> <p>b. <input checked="" type="checkbox"/> has been transmitted by the International Bureau. (PCT/IB/308)</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6 <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</p> <p>7 <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau).</p> <p>b. <input type="checkbox"/> have been transmitted by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired</p> <p>d. <input type="checkbox"/> have not been made and will not be made</p> <p>8 <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9 <input checked="" type="checkbox"/> An/signed declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (3 pages)</p> <p>10 <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p>Items 11. to 16. below concern document(s) or information included:</p> <p>11 <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98, PTO-1449, and copy (EPO) International Search Report - 3 pages in English - listing references and their relevance, and 4 references disclosed and discussed on specification pages 3-5</p> <p>12 <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13 <input type="checkbox"/> A FIRST preliminary amendment.</p> <p><input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</p> <p>14 <input checked="" type="checkbox"/> ANNEXES, IF ANY, ARE NOT TO BE ENTERED ANNEXES, IF ANY, ARE NOT TO BE ENTERED</p> <p>15 <input type="checkbox"/> A change of power of attorney and/or address letter</p> <p>16 <input checked="" type="checkbox"/> Other items or information: WO 01/16259 (cover sheet - with abstract)</p> <p>17. <input checked="" type="checkbox"/> PCT/IPEA/401</p> <p>18. <input checked="" type="checkbox"/> PCT/IB/308</p> <p>19. <input checked="" type="checkbox"/> CLAIM IS HEREBY MADE OF THE BENEFIT OF FILING DATES OF GERMAN PATENT Applications: 199 40 800.9 filed August 27, 1999; and 100 21 953.5 filed May 5, 2000 UNDER 35 USC 119</p> <p>20. <input checked="" type="checkbox"/> EXPRESS MAIL mailing label No. EF024293079US deposited February 19, 2002</p>			

JC18 Rec'd-PCT/PTO 19 FEB 2002

US APPLICATION NO (if known) 37 CFR 1.53		INTERNATIONAL APPLICATION NO PCT/EP00/08290		ATTORNEY'S DOCKET NUMBER 23427N1PCT/US	
17. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$970.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO. \$840.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$760.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$670.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$96.00				CALCULATIONS PTO USE ONLY	
ENTER APPROPRIATE BASIC FEE AMOUNT =				\$ 890.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	- 20 =		X \$18.00	\$	
Independent claims	- 3 =		X \$78.00	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$260.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$ 890.00	
Reduction of 1/2 for filing by small entity, if applicable. A Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28).				\$	
SUBTOTAL =				\$ 890.00	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f))				\$	
TOTAL NATIONAL FEE =				\$ 890.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$	
TOTAL FEES ENCLOSED =				\$ 890.00	
				Amount to be:	
				refunded	
				charged	
a <input checked="" type="checkbox"/> ¹⁴⁴¹⁰ A check in the amount of \$890.00 to cover the above fees is enclosed b <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>06-0105</u> . A duplicate copy of this sheet is enclosed.					
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO MARTIN A. FARBER 866 United Nations Plaza, Suite 473 New York, NY 10017 Tel (212) 758-2878 Fax (212) 758-2913				SIGNATURE  MARTIN A. FARBER NAME Reg. No. 22,345 REGISTRATION NUMBER	

10069494 062902

EXPRESS MAIL
MAILING LABEL
10/069494 EFO 24292833
deposited 6/28/02
Rec'd PCT/PTO 28 JUN 2002
23427N1PCT/US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

USA PCT National Stage Patent Application
PCT/EP00/08290 filed August 25, 2000

Bernd Laudi, et al

Serial No.: 10/069,494

First Submission filed February 19, 2002

FLAMMABLE MASS

CERTIFICATE OF MAILING ON LAST PAGE

Hon. Commissioner of Patents & Trademarks

Washington, D.C. 20231

S I R :

PRELIMINARY AMENDMENT

Please amend this application simultaneously with filing the
accompanying translation for this National Stage application as
follows:

IN THE ABSTRACT

An abstract is provided on a separate page

IN THE SPECIFICATION

Page 1, Line 3, before this line and after the title insert the
following paragraph heading:

down to nanometres. In contrast, the size can also be selected to have an upper limit up to the millimetre range. Specifically, a range can be provided, for example, (situated in the lower part of the abovementioned spectrum) from 7×10^{-3} to $7 \times 10^{-2} \mu\text{m}$. In order, in this regard, to obtain the sought-after mass (paraffin character, coherent mass, no powder characteristics), the weight ratio of paraffin to silicic acid should be greater than or equal to 80 (paraffin) to 20 (silicic acid). "Paraffin" is here chosen to be representative of all other variants mentioned below.

IN THE CLAIMS

PAGES 9-10

before claim 1, change "CLAIMS" to --WE CLAIM:--

Please cancel claims 1-12 without prejudice or disclaimer of the subject matter therein and substitute the following claims 13-21 respectively, therefor:

--13. (new) Flammable mass, in particular in a form of a firelighting aid, such as barbecue firelighters, fireplace firelighters and oven firelighters respectively made of paraffin containing inorganic particles disposed in a homogeneous distribution in the paraffin, and, optionally, a combustion-promoting additive, said particles being silicic acid.

14. (new) Flammable mass according to claim 13, wherein the silicic acid is precipitated silicic acid.

15. (new) Flammable mass according to claim 13, wherein the silicic acid is pyrogenic silicic acid.

16. (new) Flammable mass according to claims 13, wherein the silicic acid is hydrophilic.

17. (new) Flammable mass according to claim 13, wherein the silicic acid is hydrophobic.

18. (new) Flammable mass according to claim 13, wherein the paraffin is paraffin produced from slack wax.

19. (new) Flammable mass according to claim 13, wherein the paraffin is paraffin produced by Fischer-Tropsch synthesis.

20. (new) Flammable mass according to claim 13, wherein the combustion-promoting additive is a metallocene.

21. (new) Flammable mass according to
claim 20, wherein the metallocene is a ferrocene.--

SECRET

Therefore no multiple-dependent claim fees should be charged in this application.

An Abstract is presented on a separate page herewith.

Attached hereto is a marked copy of the changes made to the specification by the current amendment. The attached pages are captioned "Version with markings to show changes made"

Respectfully submitted,
Bernd Landi, et al

by: MARTIN A. FARBER
Attorney for Applicants
Registered Representative
Registration No. 22,345

I hereby certify that the accompanying Preliminary Amendment is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner of Patents & Trademarks, Washington, D.C. 20231, on June 28, 2002.

Dated: June 28, 2002
866 United Nations Plaza
New York, NY 10017
(212) 758-2878

~~MARTIN A. FARBER~~

USA PCT National Stage Patent Application
PCT/EP00/08290 filed August 25, 2000
Bernd Laudi, et al
Serial No.:
First Submission filed February 19, 2002
FLAMMABLE MASS

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION

Page 1, Line 3, before this line and after the title insert the following paragraph heading:

Page 1, please replace the paragraph beginning at line 34 with the following rewritten paragraph and paragraph heading:

This object is achieved with the subject matter [of Claim 1] which relates to a flammable mass of paraffin having inorganic particles disposed in a homogeneous distribution in paraffin. According to the invention, it has been revealed that a fine distribution of inorganic particles in the paraffin makes this flammable at the surface. It is known for burning paraffin, that is to say in the case of candles, to place a wick in the paraffin. This has proved to be no longer necessary if, as described, inorganic particles are disposed in a homogeneous distribution in the paraffin. To this extent it is even possible, by concentrating the particles only in a central region of a candle, thin in the manner of a wick, to replace a customary wick by this. In this specific example the invention also comprises a candle thus formed. A number of possibilities are provided with respect to the particles. They can be, in particular, silicic

acid particles, specifically silica. The size of the particles can vary. However, preferably, the size is in the range of fractions of millimetres down to nanometres. In contrast, the size can also be selected to have an upper limit up to the millimetre range. Specifically, a range can be provided, for example, (situated in the lower part of the abovementioned spectrum) from 7×10^{-3} to $7 \times 10^{-2} \mu\text{m}$. In order, in this regard, to obtain the sought-after mass (paraffin character, coherent mass, no powder characteristics), the weight ratio of paraffin to silicic acid should be greater than or equal to 80 (paraffin) to 20 (silicic acid). "Paraffin" is here chosen to be representative of all other variants mentioned below.

[illegible]

USA PCT National Stage Patent Application
PCT/EP00/08290 filed August 25, 2000
Bernd Laudi, et al
Serial No.:
First Submission filed February 19, 2002
FLAMMABLE MASS

ABSTRACT

Flammable mass, in particular in a form of a firelighting aid, such as barbecue firelighters, fireplace firelighters and oven firelighters respectively consisting of paraffin containing inorganic particles disposed in a homogeneous distribution in the paraffin, and, optionally, a combustion-promoting additive, the particles consisting of silicic acid.

WO 01/16259

Flammable mass

The invention relates to a flammable mass. Such flammable masses are already known in various embodiments.

5 Reference is made, for example, to spirit, including spirit modified in the form of a gel. Furthermore, reference is also made to flammable resin formulations, such as are known, for instance, under the trade name ESBIT.

10


The invention relates therefore in particular to a flammable mass in the form of a firelighting aid, for instance a barbecue firelighter, a fireplace firelighter or an oven firelighter. Furthermore, the
15 flammable mass can also be used, for example, for a fondue burner. For this they can be accommodated in a vessel, for instance an aluminium pot, such as the burner for a spirit modified in the form of a gel mentioned above. The pot can, in a conventional manner,
20 consist of a metal foil, for instance an aluminium foil or the like.

In the case of individual known flammable masses of this type, the heating value, for example, is not
25 especially high. Also, in the case of certain flammable masses of this type toxicity has been perceived to be disadvantageous. For instance with respect to storage in the home.

30 It is therefore an object of the invention to provide a further flammable mass which is as advantageous as possible.

This object is achieved with the subject matter of

CONFIRMATION COPY



With respect to the silicic acid, in particular what are termed precipitation silicic acids are preferred. 35 They are prepared, as is known, from an aqueous alkali metal silicate solution using mineral acids. From this

a silicic acid powder is then finally produced. In addition, what are termed pyrogenic silicic acids are also preferred. These are highly disperse silicic acids which are prepared by flame hydrolysis. Pyrogenic silicic acids have a virtually pore-free surface. Significantly fewer OH groups are bound to this than in the case of precipitation silicic acids.

These synthetic silicic acids are generally hydrophilic
10 and can be utilized for this property. However, silicic
acids which may have been made hydrophobic by a further
treatment can also be used.

It is essential that the flammable mass is one having
15 paraffin character. Silicic acid is added to the
paraffin heated to a liquid state, with the silicic
acid also having a thixotropic action in a manner known
per se. A gel-like state results. After cooling, the
flammable mass has a paraffin-like character resembling
20 candle material with respect to its nature and its
external properties. It is characteristic that when the
flammable mass is melted, it first transforms into, or
passes through, a gel-like state.

25 With respect to the paraffin, a suitable paraffin is firstly that from which candles are customarily produced. That is to say paraffin produced from slack wax, a petroleum residue product, for instance by sweating to remove oil.

Furthermore, however, synthetic paraffin, as produced using the Fischer-Tropsch synthesis, can also be advantageous. FT paraffins principally only consist of normal paraffins. More than 90% are usually n-alkanes. 35 The remainder are isoalkanes. The chain length is C30 to about C100, but also in part less, that is to say

Furthermore, it can also be a substance which, in

WO 01/16259

- 5 -

PCT/EP00/08290

addition to the hydrocarbon oil previously mentioned,
also called white oil, also comprises synthetic
paraffins (the FT paraffins already described above).
The latter preferably in a chain length of C18-C20. In
5 this context, reference is also made to PCT/EP98/07300
and the disclosure content of this publication is also
incorporated in full into the present application, also
for the purpose of incorporating features of the said
publication into claims of the present application.

10

The paraffin mentioned and the further candle masses
mentioned can be used with the most widely varying
melting points. However, it is advisable to use masses
having relatively high melting points, since, then,
15 during burning the solid structure is substantially
retained.

In a further advantageous embodiment, it is provided
that the paraffin comprises an additive improving the
20 combustion process. An additive of this type can be, in
particular, a metallocene. Surprisingly, by this means,
the combustion operation proceeds in a greatly reduced-
soot manner, up to a virtually soot-free manner. Among
the metallocenes, in turn, ferrocene is particularly
25 preferred.

The inorganic particles can be present in the paraffin
in a mass fraction of 1 to about 30%. The combustion-
improving additive, in contrast, is preferably present
30 in the flammable mass in portions from 10 to 400 ppm,
furthermore also up to 0.5% by volume.

The flammable mass can also be fabricated as a waxy
block. However, it can also be provided in powder form.
35

The said homogeneous distribution of the inorganic

WO 01/16259

- 6 -

PCT/EP00/08290

particles in the paraffin is preferably three dimensional. However, in individual cases, it can also be sufficient to provide only an upper layer with the finely distributed particles. In the course of the
5 burning process, these particles, which do not burn themselves, then sink down and thus always remain as particles required in the burning layer.

Example experiments have been carried out, firstly with
10 a flammable mass according to the present description, and secondly with a conventional barbecue firelighter which principally consisted of organic constituents (wood fibres) together with traces of silicon and magnesium. Furthermore, comparison experiments have
15 also been performed with respect to a commercially conventional barbecue firelighter consisting of a waxy mass.

Regarding the flammable mass according to the present
20 description, it is a mass based on conventional paraffin produced from slack wax having a melting point of approximately 52-54°C. To this paraffin were added 8% (per cent by weight) of precipitated silicic acid particles of a mean size of 12 nanometres.

25 In this case, for the mass according to the invention (weight 1.9143 g) there resulted a significantly longer burning time (namely 8.58 min) compared with the commercially conventional barbecue firelighter (weight
30 1.7659 g, burning time 4.4 min).

It was of great importance, however, that what are termed the PAH values [EPA 1 to 16] (polycyclic aromatic hydrocarbons) were significantly reduced in
35 the mixture according to the invention (37.9 mg/kg compared with 3 271 mg/kg).

25 The comparison experiment with the barbecue firelighter
in the form of a commercially conventional waxy mass
found that also in this respect the PAH values were
significantly lower (comparison mass: 97.2), provided
that a combustion promoter such as ferrocene was not
30 used. The chlorine and sulphur values were also
noticeably or significantly lower (in the case of the
comparison mass chlorine: 96.4 mg/kg and sulphur
195.7 mg/kg). This is also the case compared with a
flammable mass as described here with addition of
35 ferrocene. In contrast, the burning time in the case of
the commercially available waxy mass was comparable

All features disclosed are pertinent to the invention. In the disclosure of the application, the disclosure content of the associated priority documents (publication of the prior application) is also incorporated in full, also for the purpose of incorporating features of these documents into claims of the present application.

All features disclosed are pertinent to the invention. In the disclosure of the application, the disclosure content of the associated priority documents (publication of the prior application) is also incorporated in full, also for the purpose of incorporating features of these documents into claims of the present application.

CLAIMS

1. Flammable mass, in particular in the form of a firelighting aid, such as barbecue firelighters, fireplace firelighters or oven firelighters consisting of paraffin containing inorganic particles disposed in a homogeneous distribution in the paraffin.
2. Flammable mass according to one or more of the preceding claims or in particular according thereto, characterized in that the particles consist of silicic acid.
3. Flammable mass according to one or more of the preceding claims or in particular according thereto, characterized in that the silicic acid is precipitated silicic acid.
4. Flammable mass according to one or more of the preceding claims or in particular according thereto, characterized in that the silicic acid is pyrogenic silicic acid.
5. Flammable mass according to one or more of the preceding claims or in particular according thereto, characterized in that the silicic acid is hydrophilic.
6. Flammable mass according to one or more of the preceding claims or in particular according thereto, characterized in that the silicic acid is hydrophobic.
7. Flammable mass according to one or more of the preceding claims or in particular according

thereto, characterized in that the particles consist of silica.

- 5 8. Flammable mass according to one or more of the preceding claims or in particular according thereto, characterized in that the paraffin is paraffin produced from slack wax.
- 10 9. Flammable mass according to one or more of the preceding claims or in particular according thereto, characterized in that the paraffin is paraffin produced by Fischer-Tropsch synthesis.
- 15 10. Flammable mass according to one or more of the preceding claims or in particular according thereto, characterized in that the flammable mass comprises a combustion-promoting additive.
- 20 11. Flammable mass according to one or more of the preceding claims or in particular according thereto, characterized in that the combustion-promoting additive consists of a metallocene.
- 25 12. Flammable mass according to one or more of the preceding claims or in particular according thereto, characterized in that the metallocene is a ferrocene.

(12) NACH DEM VERTRAG ÜBER DIE INTERNATIONALE ZUSAMMENARBEIT AUF DEM GEBIET DES
PATENTWESENS (PCT) VERÖFFENTLICHTE INTERNATIONALE ANMELDUNG

(19) Weltorganisation für geistiges Eigentum
Internationales Büro



(43) Internationales Veröffentlichungsdatum
8. März 2001 (08.03.2001)

PCT

(10) Internationale Veröffentlichungsnummer
WO 01/16259 A1

(51) Internationale Patentklassifikation⁷: **C10L 11/04**

(74) Anwälte: **MÜLLER, Enno** usw.: Rieder & Partner, Corneliusstrasse 45, 42329 Wuppertal (DE).

(21) Internationales Aktenzeichen: **PCT/EP00/08290**

(81) Bestimmungsstaaten (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(22) Internationales Anmeldedatum:
25. August 2000 (25.08.2000)

(25) Einreichungssprache: **Deutsch**

(26) Veröffentlichungssprache: **Deutsch**

(30) Angaben zur Priorität:
199 40 800.9 27. August 1999 (27.08.1999) DE
100 21 953.5 5. Mai 2000 (05.05.2000) DE

(84) Bestimmungsstaaten (*regional*): ARIPO-Patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), eurasisches Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), europäisches Patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI-Patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(71) Anmelder (für alle Bestimmungsstaaten mit Ausnahme von US): **SCHÜMANN SASOL GMBH** [DE/DE]; Worthdamm 13-27, 20457 Hamburg (DE).

Veröffentlicht:

- Mit internationalem Recherchenbericht
- Vor Ablauf der für Änderungen der Ansprüche geltenden Frist; Veröffentlichung wird wiederholt, falls Änderungen eintreffen.

(72) Erfinder; und

(75) Erfinder/Anmelder (nur für US): **LAUDI, Bernd** [DE/DE]; Bundesstrasse 13, 25557 Gockels (DE). **FRICK, Thorsten** [DE/DE]; Brehmweg 42, 22527 Hamburg (DE). **MATTHÄI, Michael** [DE/DE]; Matthias-Claudius-Strasse 57, 24558 Henstedt-Ulzburg (DE). **MORSCH, Michael** [DE/DE]; Rullstorfer Strasse 12, 21379 Rullstorf-Boltersen (DE).

Zur Erklärung der Zweibuchstaben-Codes, und der anderen Abkürzungen wird auf die Erklärungen ("Guidance Notes on Codes and Abbreviations") am Anfang jeder regulären Ausgabe der PCT-Gazette verwiesen

(54) Title: **FLAMMABLE MASS**

(54) Bezeichnung: **BRENNBARE MASSE**

(57) Abstract: The invention relates to a flammable mass, in particular, in the form of a fire-lighting aid, such as a barbecue-lighter, fire-lighter or oven-lighter. Said flammable mass consists of paraffin, containing inorganic particles which are dispersed in the paraffin in a homogenous manner. The particles can consist of silicic acid or silica. The flammable mass can also contain an additive to improve combustion, such as metallocene.

(57) Zusammenfassung: Die Erfindung betrifft eine brennbare Masse, insbesondere in Form einer Anzündhilfe, wie Grillanzünder, Kaminanzünder oder Ofenanzünder, bestehend aus Paraffin mit in dem Paraffin homogen verteilt angeordneten anorganischen Partikeln. Die Partikel können aus Kieselsäure oder Silika bestehen. Weiter kann die brennbare Masse einen brennverbessernden Zusatz wie etwa Metallocen enthalten.

WO 01/16259 A1

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

(Includes Reference to PCT International Applications)

23427N1PCT/US

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

FLAMMABLE MASS

the specification of which (check only one item below):

☐ is attached hereto.

☐ was filed as United States application

Serial No. _____

on _____

and was amended

on _____ (if applicable).

☒ was filed as PCT international application

Number PCT/EP00/08290

on August 25, 2000

and was amended under PCT Article 19

on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY (if PCT indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day month, year)	PRIORITY CLAIM Under 35 USC 119
Germany	199 40 800.9	27/08/1999	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Germany	100 21 953.5	05/05/2000	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

Combined Declaration For Patent Application and Power of Attorney (Continued)
 (Includes Reference to PCT International Applications)

 ATTORNEY'S SUBJECT NUMBER
 23427N1PCT/US

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:

U.S. APPLICATIONS		STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
PCT APPLICATIONS DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBER ASSIGNED (if any)		

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)

MARTIN A. FARBER, Esq., Reg. No. 22,345
 866 United Nations Plaza, Suite 473
 New York, NY 10017
 U.S.A.

Send Correspondence to:

MARTIN A. FARBER
 866 United Nations Plaza, Suite 473
 New York, NY 10017

 Direct Telephone Calls to:
 (name and telephone number)

MARTIN A. FARBER
 (212) 758-2878

201	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY	
202	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY	
203	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE	DATE	DATE

Combined Declaration For Patent Application and Power of Attorney (Continued)
(Includes Reference to PCT International Applications)

ATTORNEY'S OFFICE
23427N1PCT/US

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112. I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:

U.S. APPLICATIONS		STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
PCT APPLICATIONS DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)		

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number)

MARTIN A. FARBER, Esq., Reg. No. 22,345
866 United Nations Plaza, Suite 473
New York, NY 10017
U.S.A.

Send Correspondence to:

MARTIN A. FARBER
866 United Nations Plaza, Suite 473
New York, NY 10017

Direct Telephone Calls to:
(name and telephone number)

MARTIN A. FARBER
(212) 758-2878

201	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY
202	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY
203	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE	DATE	DATE